

**ST. ANN'S COLLEGE OF ENGINEERING & TECHNOLOGY: CHIRALA
DEPARTMENT OF COMPUTERS SCIENCE & ENGINEERING**

LECTURE SCHEDULE

SUBJECT: CONCURRENT AND PARALLEL PROGRAMMING
NAME: A YUGANDHAR REDDY
No. of Lectures per week : 5

ACADEMIC YEAR: 2019-20
YEAR & SEM/SECTION: IV-II 'C'

SL.NO	DATE	UNITS	TOPICS
1	18/11/19	I	Introduction:
2	19/11/19		Concurrent programming
3	20/11/19		Sequential programming
4	21/11/19		Concurrent versus Sequential Programming
5	22/11/19		Concurrent versus Sequential Programming
6	25/11/19		Concurrent Programming Constructs
7	26/11/19		Concurrent Programming Constructs
8	27/11/19		Concurrent Programming Race conditions
9	28/11/19		Synchronization Primitives
10	29/11/19		Synchronization Primitives
11	2/12/19		REVISION
12	3/12/19		TUTORIAL
13	4/12/19		Revision through PPT
14	5/12/19		Revision through PPT
15	6/12/19		UNIT TEST-I
16	9/12/19	II	Process and Threads
17	10/12/19		Inter process Communication
18	11/12/19		Livelocks
19	12/12/19		Deadlocks and starvation
20	13/12/19		Deadlock Prevention methods
21	16/12/19		Issues of concurrent programming paradigm
22	17/12/19		Challenges of concurrent programming paradigm
23	18/12/19		Concurrent Programming current trends
24	19/12/19		TUTORIAL
25	20/12/19		Revision through PPT
26	23/12/19		Revision through PPT
27	26/12/19		UNIT TEST-II
28	27/12/19	III	Parallel Programming algorithms
29	30/12/19		parallel Sorting Algorithm
30	31/12/19		parallel Ranking Algorithm
31	1/1/20		parallel Searching Algorithm
32	2/1/20		parallel Traversals Algorithm
33	3/1/20		parallel Prefix Algorithms
34	6/1/20	REV	REVISION
35	7/1/20		REVISION
36	8/1/20		REVISION
37	9/1/20		REVISION
38	10/1/20		REVISION

39	13/1/20	MID-1	Mid-1(Revision)
40	20/1/20		Mid-1(Revision)
41	21/1/20		Mid-1(Revision)
42	22/1/20		Mid-1(Revision)
43	23/1/20		Mid-1(Revision)
44	24/1/20	IV	Parallel Programming Paradigms
45	27/1/20		Parallel Programming Data Parallel Paradigm
46	28/1/20		Parallel Programming Task Parallel Paradigm
47	29/1/20		Shared memory Paradigm
48	30/1/20		Message Passing Paradigm
49	31/1/20		Parallel Architectures
50	3/2/20		GPGPU Architecture
51	4/2/20		Pthreads
52	5/2/20		STM Paradigm
53	6/2/20		STM Paradigm
54	7/2/20		REVISION
55	10/2/20		TUTORIAL
56	11/2/20		Revision through PPT
57	12/2/20		Revision through PPT
58	13/2/20		UNIT TEST-IV
59	14/2/20	V	Open MP
60	17/2/20		Open CL
61	18/2/20		Cilk++
62	19/2/20		Intel TBB
63	20/2/20		CUDA
64	21/2/20		Cilk++ Examples
65	25/2/20		REVISION
66	26/2/20		TUTORIAL
67	27/2/20		Revision through PPT
68	28/2/20		Revision through PPT
69	2/3/20		UNIT TEST-V
70	3/3/20	VI	Hetrogeneous Computing
71	4/3/20		C++AMP
72	5/3/20		C++AMP
73	6/3/20		Open CL
74	10/3/20		Open CL
75	11/3/20		Hetrogeneous Computing Examples
76	12/3/20		Revision through PPT
77	13/3/20		Revision through PPT
78	16/3/20		R E V
79	17/3/20	REVISION	
80	18/3/20	REVISION	
81	19/3/20	REVISION	
82	20/3/20	REVISION	
83	23/3/20	MID-2	Mid-2(Revision)

84	24/3/20		Mid-2(Revision)
85	26/3/20		Mid-2(Revision)
86	27/3/20		Mid-2(Revision)
87	30/3/20		Mid-2(Revision)

TEXT BOOKS:

1. The complete Reference Java, 8th edition, Herbert Schildt, TMH.
2. Programming in JAVA, Sachin Malhotra, SaurabhChoudary, Oxford.
3. Introduction to java programming, 7th edition by Y Daniel Liang, Pearson.

REFERENCE BOOKS:

1. JAVA Programming, K Rajkumar, Pearson
2. Core JAVA, Black Book, Nageswararao,Wiely Dream Tech
3. Core JAVA for Beginners, Rashmi Kanta Das, Vikas
4. Object Oriented Programming Through JAVA, P. Radha Krishna, Universities Press.

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